

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A photovoltaic (PV) laminate backplane assembly comprising:  
  
an insulative substrate; and  
  
a metal foil bonded to said insulative substrate on a first surface and electrically receptive to provide an interconnection pattern for mounting ~~a solar cell~~ solar cells on a second surface opposite said first surface, said metal foil including a light ~~concentrator~~ reflector disposed at exposed regions on said second surface of said metal foil, said light ~~concentrator~~ reflector configured to reflect incident light thereon ~~to said solar cell~~ to increase a concentration of light on said solar cell ~~in a range of about 1.5X to about 4X.~~
2. (original) The assembly of claim 1, wherein said substrate comprises a polymeric substrate.
3. (original) The assembly of claim 2, wherein said polymeric substrate comprises one of a flexible and a rigid polymer.
4. (currently amended) The assembly of claim 1, wherein said exposed regions on said second surface of said metal foil are disposed proximate ~~edges defining~~ peripheral edges of said solar cell ~~is one of and are~~ augmented by a coating ~~and mechanically modified to reflect light onto said solar cell and enhance light intensity thereon.~~
5. (original) The assembly of claim 4, wherein said coating includes a reflective ink.
6. (original) The assembly of claim 5, wherein said ink includes a colloidal suspension of glass spheres in an optically transparent binder.
7. (original) The assembly of claim 1, wherein said metal foil is at least one of copper, aluminum and a conductive metal foil selected on a basis of cost, electrical, and thermal

performance.

8. (currently amended) The assembly of claim 7, wherein said metal foil is further patterned to match ~~at least~~ an interconnection configuration of ~~said solar cell and~~ a PV laminate module.

9. (original) The assembly of claim 8, wherein said metal foil is configured to provide a low resistance interconnection of a plurality of solar cells while providing a thermal sink for heat generated by each cell.

10. (currently amended) The assembly of claim 9, wherein said metal foil is configured for channeling heat generated by at least one of said solar cells ~~and absorbed solar radiation internal to said module is channeled~~ to an edge defining of said module ~~via said metal foil~~.

11. (currently amended) The assembly of claim 10, wherein said edge defining of said module is configured to dissipate said generated heat by one of radiation and convection.

12. (original) The assembly of claim 1, wherein said metal foil functions as an electrical conductor, thermal conductor, and an optical reflector.

13. (currently amended) The assembly of claim 1, wherein said substrate includes a flexible polymer and said metal foil includes a reflective coating disposed proximate ~~said edges~~ at least one edge of said solar cell.

14. (original) The assembly of claim 1, wherein said substrate includes a plurality of metallized vias to allow dissipation of heat therethrough.

15. (currently amended) A solar cell laminate assembly comprising:

a plurality of solar cells each having a first side and a second side, each of said plurality of solar cells configured to produce an electrical current when receiving photons on at least said first side;

an encapsulant operably coupled to the first side of each of said plurality of solar cells;

an insulative substrate operably coupled to the second side of each of said plurality of solar cells; and

a metal foil bonded to said insulative substrate on a first surface and electrically receptive to provide an interconnection pattern for mounting ~~a solar cell~~ solar cells on a second surface opposite said first surface, said metal foil including a light ~~concentrator~~ reflector disposed at exposed regions on said second surface of said metal foil, said light ~~concentrator~~ reflector configured to reflect incident light thereon ~~to said solar cell~~ to increase a concentration of light on said solar cell ~~in a range of about 1.5X to about 4X.~~

16. (original) The assembly of claim 15, wherein said substrate comprises a polymeric substrate.

17. (original) The assembly of claim 16, wherein said polymeric substrate comprises one of a flexible and a rigid polymer.

18. (currently amended) The assembly of claim 15, wherein said exposed regions on said second surface of said metal foil are disposed proximate ~~edges defining peripheral edges~~ of said each solar cell ~~is one of~~ and are augmented by a coating and ~~mechanically modified to reflect light onto said solar cell and enhance light intensity thereon.~~

19. (original) The assembly of claim 18, wherein said coating includes a reflective ink.

20. (original) The assembly of claim 19, wherein said ink includes a colloidal suspension of glass spheres in an optically transparent binder.

21. (original) The assembly of claim 15, wherein said metal foil is at least one of copper, aluminum and a conductive metal foil selected on a basis of cost, electrical, and thermal performance.

22. (currently amended) The assembly of claim 21, wherein said metal foil is further patterned to match at least an interconnection configuration of ~~said solar cell~~ and a PV laminate module.

23. (original) The assembly of claim 22, wherein said metal foil is configured to provide a low resistance interconnection of said plurality of solar cells while providing a thermal sink for heat generated by said each solar cell.

24. (currently amended) The assembly of claim 23, wherein said metal foil is configured

~~for channeling~~ heat generated by at least one of said solar cells ~~and absorbed solar radiation internal to said module is channeled~~ to an edge defining of said module ~~via said metal foil~~.

25. (currently amended) The assembly of claim 24, wherein said edge ~~defining of~~ said module is configured to dissipate said generated heat by one of radiation and convection.

26. (original) The assembly of claim 15, wherein said metal foil functions as an electrical conductor, thermal conductor, and an optical reflector.

27. (original) The assembly of claim 15, wherein said substrate includes a flexible polymer and said light concentrator includes a reflective coating disposed proximate said edges of said each solar cell.

28. (original) The assembly of claim 15, wherein said substrate includes a plurality of metallized vias to allow dissipation of heat therethrough.